

## RACU ACTIVATION

### 1. VERIFY FGB COMMAND STATUS

#### NOTE

RACU commands sent from Orbiter will not work if FGB relay matrix is in **MCC-M** command state (COMMANDING - INH). Crew can follow ground activities using the "If ENA" block below.

CRT

SM 204 FGB

√COMMANDING - INH

### 2. IF COMMANDING - INH

**Shuttle** ↓ **MCC-H**  
**MCC-H** ⇒ **MCC-M**

"Ready for RACU5(6) Power On"

"Go for RACU5(6) Power On"

RUSSIAN GROUND	<u>AOS</u>	<u>LOS</u>
Pass 1	___/___:___:___	___/___:___:___
Pass 2	___/___:___:___	___/___:___:___

**MCC-M** ⇒ **MCC-H** ↑ **Shuttle** "RACU5(6) Power On at  
\_\_\_/\_\_\_:\_\_\_:\_\_\_ GMT"

### 3. IF COMMANDING -ENA

**Shuttle** ↓ **MCC-H** "Ready for RACU5(6) Power On"  
**MCC-M** ⇒ **MCC-H** "Go for RACU5(6) Power On"  
**MCC-H** ↑ **Shuttle** "Go for RACU5(6) Power On"

**On MCC GO**

CRT

SM 204 FGB

PCS

nav FGB: EPS  
FGB: EPS

√FGB Main Bus Voltage 1,2 (two): 28.0 --- 29.0 V

√FGB Batt Voltage 1---6 (six) > 25.5 V

\*\*\*\*\*  
\* If any FGB Batt Voltage < 25.5 Volts, then \*  
\* Notify **MCC**: "FGB Batteries Low " \*  
\* Wait 1 orbit for FGB batteries to charge. \*  
\*\*\*\*\*

SM 210 NODE

√FRM CTR - Incrementing

If FRM CTR - Static

SM 204 FGB

RACU 5(6) PWR ON VIA FGB - ITEM 1 (ITEM 3) EXEC

√RACU 5(6) Power On - \*

√Input Amps > 3.0 A

√Output Volts: 121---125 V

√Amps: 0.3 --- 10 A

NOTE

Amperage should be at 0.5 amps at power ON.  
Amperage could be as high as 10 amps after MDM  
initialization (approximately 2.5 minutes), depending  
on heater usage.

\* \*\*\*\*\* \*

\* If RACU 5(6) OUT AMPS > 10 \*

\* RACU 5(6) PWR OFF VIA FGB - ITEM 5 \*

\* (ITEM 7) EXEC \*

\* \*\*\*\*\* \*

If FRM CTR - Incrementing

SM 204 FGB

RACU 5(6) PWR ON VIA NCS - ITEM 2 (ITEM 4) EXEC

√RACU 5(6) Power On - \*

√Input Amps > 3.0 A

√Output Volts: 121---125 V

√Amps: 0.3 --- 10 A

NOTE

Amperage should be at 0.5 amps at power ON.  
Amperage could be as high as 10 amps after MDM  
initialization (approximately 2.5 minutes), depending  
on heater usage.

\* \*\*\*\*\* \*

\* If RACU 5(6) OUT AMPS > 10 \*

\* RACU 5(6) PWR OFF VIA NCS - ITEM 6 \*

\* (ITEM 8) EXEC \*

\* \*\*\*\*\* \*

PCS

nav FGB: EPS

FGB: EPS

sel RACU Details

sel Commands

**cmd FGB RACU5(6) - On Execute**

√RACU 5(6) Converter - On

√RACU 5(6) Converter Input Current > 3.0 A

√Output Current: 0.5 --- 10 A

√Voltage: 121 --- 125 V

NOTE

Amperage should be at 0.5 amps at power ON.

Amperage could be as high as 10 amps after MDM initialization (approximately 2.5 minutes), depending on heater usage.

\* \*\*\*\*\* \*

\* If RACU 5(6) Output Current > 10 \*

\* sel Commands \*

\* **cmd FGB RACU 5(6) - Off Execute** \*

\* \*\*\*\*\* \*